

# ANDROMEDA

Plaited & Woven  
Division

Brochure # 056-21  
Superflex Slings

## Safe Working Loads for SUPERFLEX SINGLE SLINGS



## SUPERFLEX STROP SLINGS




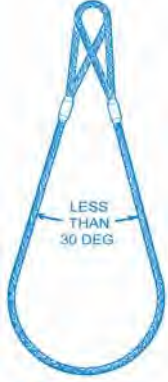
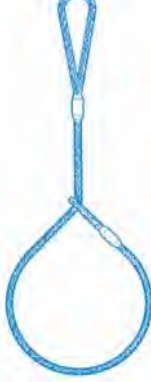

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# SAFE WORKING LOADS

SWL is shown in tonnes of 1000 kg • Factor of safety = 5

Basic cable details		SUPERFLEX SINGLE SLINGS				
Minimum Breaking Force (MBF) (kN)	Nominal Cable Diameter (D) mm	Cable number	Single fall Superflex Sling	Cradle lift angle < 30	Choked round load	Choked square load
30	8	<b>Two-0</b>				
			<b>0.6</b>	1.1	0.4	0.3
50	10	<b>Two-5</b>	<b>1.0</b>	1.9	0.7	0.5
75	12	<b>Three-0</b>	<b>1.4</b>	2.7	1.1	0.7
95	14	<b>Three-5</b>	<b>1.8</b>	3.5	1.4	0.9
125	16	<b>Four-0</b>	<b>2.4</b>	4.6	1.8	1.2
157	18	<b>Four-5</b>	<b>3.0</b>	5.8	2.3	1.5
210	20	<b>Five-0</b>	<b>4.0</b>	7.7	3.1	2.0
340	26	<b>Six-5</b>	<b>6.7</b>	13.0	5.0	3.4
530	32	<b>Eight-0</b>	<b>10.3</b>	20.0	7.8	5.2
780	40	<b>Ten-0</b>	<b>15.3</b>	29.8	11.5	7.6




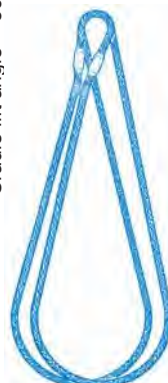


Superflex Cable (AS 3569 -1989) and Superflex Slings (AS 1666.1 - 2009) v

**Discard Criteria:** A Superflex sling should be discarded when either there is more than one cord (small wire rope) broken at one place, heavy impact loads, it is known to have been severely overloaded, or heated above 400 deg C. Wall chart designed by Raymond

**Enquiries:- Phone 02 67**

# of SUPERFLEX SLINGS

• SWL is calculated in accordance with AS 1666.1 - 2009

			<b>SUPERFLEX STROP SLINGS</b>				
Multiple slings at various angles			Cable number	Superflex strop - single fall	Cradle lift angle < 30	Choked round load	Choked square load
60°	90°	120°					
1.0	0.7	0.6	<b>Two-0</b>	0.9	1.5	<b>0.6</b>	0.4
1.7	1.4	1.0	<b>Two-5</b>	1.5	2.8	<b>1.1</b>	0.8
2.4	2.0	1.4	<b>Three-0</b>	2.2	4.3	<b>1.6</b>	1.1
3.1	2.5	1.8	<b>Three-5</b>	2.7	5.2	<b>2.0</b>	1.4
4.2	3.4	2.4	<b>Four-0</b>	3.6	6.9	<b>2.7</b>	1.8
5.3	4.3	3.0	<b>Four-5</b>	4.5	8.7	<b>3.4</b>	2.3
7.0	5.8	4.0	<b>Five-0</b>	6.0	11.7	<b>4.5</b>	3.0
11.7	9.4	6.7	<b>Six-5</b>	10.0	19.0	<b>7.6</b>	5.1
17.9	14.4	10.3	<b>Eight-0</b>	15.6	29.6	<b>11.8</b>	7.8
26.6	21.4	15.3	<b>Ten-0</b>	22.9	43.5	<b>17.5</b>	11.6

were originated by, and are manufactured by, Andromeda Industries Pty Ltd

or when more than 80 wires are broken in any length equal to 4 diameters of the cable, or if there is detrimental corrosion, signs of  
 McLaren Nov 2002. Updated December 2010

60 3773 or fax 6760 3831

## Superflex slings are used in most Australian industries, such as:

**AGRICULTURE INDUSTRY** - General purpose slings, tow cables

**AIRCRAFT** - Engine lifting slings, component handling

**BRIDGE BUILDING** - Handling concrete piles, beams, formwork

**CIVIL CONSTRUCTION** - Non-spin slings on high buildings

**CONCRETE TANKS** - Mould stripping, tank installation

**CRANE HIRE** - Multi-leg assemblies and slings for lifting

**DEMOLITION** - Handling scrap metal, timber, dismantling machines

**ELECTRICITY DISTRIBUTORS** - Pole strops, general slings

**ELECTRICITY INDUSTRY** - Transformer and large parts rigging

**ENGINEERING SUPPLIES** - Case handling, machine lifting

**EXPLORATION** - Sled towing and recovery in Antarctica

**FORESTRY** - Log and post handling; vehicle recovery, general slings

**HELICOPTER** - Non-spinning cargo slings

**IRON ORE** - Dragline dismantling, machine maintenance

**IRRIGATION** - Pump and windmill installation

**MACHINING SHOPS** - General parts handling, workshop rigging

**MARITIME** - Pile pulling, pile installations, busy mooring lines

**MILITARY** - General lifting and recovery

**OFFSHORE DRILLING** - Buoy catcher slings, general rigging

**ONSHORE DRILLING** - Pipe handling, machine maintenance

**ONSHORE RIGGING** - Slings, lashing, block falls

**PLANT MAINTENANCE** - Industrial and mining, dismantling and assembling

**PLASTICS** - Heavy die handling

**POWER GENERATION** - Turbine shaft rotation and lifting

**POWER LINE STRINGING** - Equaliser slings, anchor strops

**RAILWAYS** - Locomotive suspension travel limiters, general slings

**RECREATION** - Tow cables for 4WD vehicles, recovery rigging

**SHIPPING** - Cargo slings, lashings

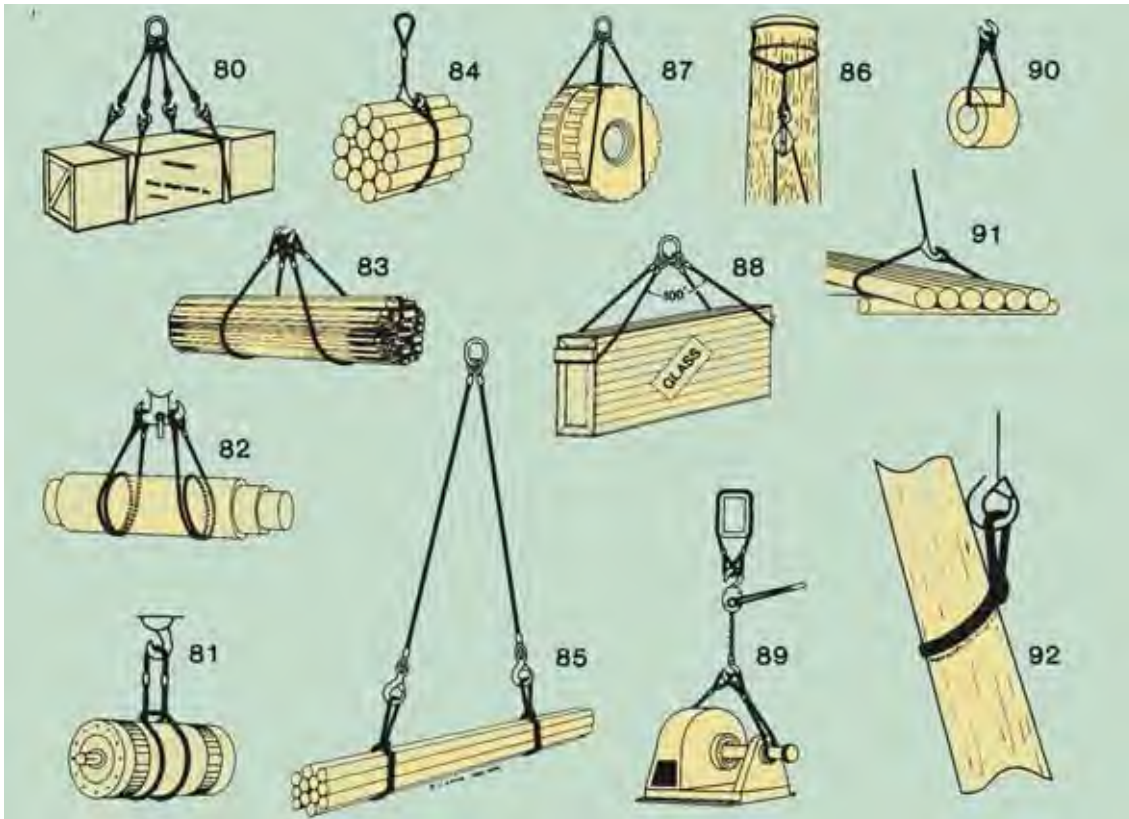
**SHIP REPAIRS** - Chain block anchorage, parts lifting

**SHIRE COUNCILS** - Heavy tow cables, workshop slings, crane slings

**TIMBER** - Sawn timber handling, log handling, machine maintenance

**UNDERGROUND MINING** - Long hole stope safety lines, general sling

## Some Typical applications for Superflex Slings



80. A pair of slings used with four leg sling to lift a heavy case. Made with Superflex cables, this entire assembly can be stowed in a small box, and is very easy to handle.

81. A Superflex strop choked round an electric motor lifts very safely, and is easily cleaned.

82. A pair of slings used to lift heavy, slippery roll. Double wraps provide sure, yet gentle grip.

83. Soft round Superflex slings reduce marking of softwood mouldings and other delicate materials.

84. Fitted with a sliding sling hook of manganese steel, a Superflex Sling safely lifts bars of steel, pit props, tubes, drill rod, logs.

85. This two leg assembly, fitted with latching hooks, uses Superflex strops to choke onto and safely lift drill rods aboard offshore oil drilling rigs.

86. Superflex slings are ideal for general pole and line rigging. Shown is a pole top sling, with a thimble in one end for repeated choking around poles.

87. Heavy Wheel and Tyre Sling. Superflex cable is easily positioned and does not fight back like ordinary wire rope. A light, strong assembly.

88. Fitted with Superflex cable, this Glass Case Sling lifts by jamming action, not by the lugs on the case, and is quite safe.

89. For general rigging associated with heavy fitting operations. Superflex slings are the ultimate in ease of handling, long life and gripping power. Also very easy to clean and store.

90. Fast to fit for simple lifting jobs like this roll of skelp.

91. Fitted with manganese steel sliding hook, this sling is gathering up a spread out load, with minimum damage to sling or materials.

92. A Superflex strop used to stand power and telephone poles. Grips the smoothest, slipperiest pole with ease.

### **SPECIAL NOTE: SUPERFLEX SLINGS and STEEL FERRULES**

We have at times been requested to make Superflex Slings with Steel Ferrules, for various applications. As much as possible we have supplied these using the steel ferrules from Talurit of Germany, as these are of the same general dimensions and require the same fitting procedures as the standard alloy ferrules to EN 13411. At present we are developing our own steel ferrule termination system, but it will be some time until it is released onto the market. In the meantime it should be noted that **distributors should not attempt to fit steel sleeves or ferrules to Superflex Cables** without consultation with Andromeda technical staff. This is because there are a number of steel sleeve systems on the market which are not compatible with Superflex Cables. It should specially be noted that Andromeda will not be responsible for the consequences if not-approved steel ferrules are fitted to Superflex Cables.